

**IN THE CLAIMS:**

Please amend the claims as follows:

1. (Currently Amended) A variant archaeal family B DNA polymerase having a V93 substitution ~~modified-amino acid sequence~~ of a wild-type archaeal family B DNA polymerase amino acid sequence, the ~~modified-sequence~~ substitution being in the amino-terminal amino acids that comprise a uracil-binding pocket in the wild-type polymerase whereby the variant polymerase has reduced affinity for uracil than the wild-type polymerase.
2. (Cancelled)
3. (Currently Amended) The variant archaeal family B DNA polymerase according to claim 1 ~~having a modified-amino acid sequence of~~ wherein the wildtype family B DNA polymerase is *Pyrococcus furiosus* DNA polymerase (Pfu-Pol).
4. (Currently Amended) The variant archaeal family B DNA polymerase according to claim 3 wherein the V93 substitution is in a highly conserved region of the uracil-binding pocket ~~having modifications in amino acids 1-40 or amino acids 78-130.~~
5. (Currently Amended) The variant archaeal DNA polymerase according to claim 4 of SEQ ID NO.2 wherein the highly conserved region is Region B. ~~having modifications to amino acids 7, 36, 37, 90-97 or 112-149.~~
- 6-8. (Cancelled)
9. (Currently Amended) The variant archaeal DNA polymerase according to claim 5 wherein the ~~modification~~ substitution is V93Q.
10. (Currently Amended) The variant archaeal DNA polymerase according to claim 5 wherein the ~~modification~~ substitution is V93R.
- 11-22. (Cancelled)
23. (Withdrawn) The variant archaeal DNA polymerase according to claim 1 having modifications in the amino acid motif of SEQ ID NO:33: E - - I -F/Y- - -Y- -D.
- 24-25. (Cancelled)
26. (Currently Amended) A kit useful for polymerase chain reactions comprising a variant archaeal family B DNA polymerase as defined in claim 1.

27. (Previously Presented) The kit of claim 26, further comprising DNA to be amplified, free bases, primers and combinations thereof.